

**PP-84**

**Biochemical and Clinical Evaluation of Arjuna plant in HFD induced hypercholesterolemia**

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Hypercholesterolemia is a leading cause of cardiovascular disease, well known worldwide major factor of heart attack, hypertension, cardiovascular disease and obesity. In investigation, hypercholesterolemia were induced through continue administration of high fat rich diet. The biochemical and clinical profiles were evaluated significantly. TC, TG, LDL, VLDL and HDL, were altered due to consumption of high fat rich diet. Level of liver enzymatic markers SGOT and SGPT, renal profile (Urea, Creatinine and Uric acid) were also altered with HFD. A significant reduction was observed with the therapy of ethanol extract of arjuna bark powder. No significant effects were observed in body weight and haematological parameters. In the present study the results were indicate the potential hepato protective and cardio protective action of arjuna plant.

Key words: Arjuna, Hypercholesterolemia, high fat rich diet, lipid profile